What is claimed is:

A method of indicating an undesired operation condition of a centrifugal separator, which includes a centrifugal rotor forming a separation chamber, a supply conduit for supplying a liquid mixture to be separated to the separation chamber, the liquid mixture containing at least two components, at least two outlets for discharging separated component, respectively, out of the separation chamber, one outlet of the two outlets for discharging a separated liquid phase comprising one of the components, and a first outlet conduit, the interior of which communicates with said one outlet, said method comprising the steps of

operating the centrifugal separator,

sensing a normal operating pressure in the first outlet conduit, when a normal flow of the liquid mixture prevails in the supply conduit and a normal flow of the liquid phase prevails in the first outlet conduit,

at least substantially decreasing the flow of the liquid mixture through the supply conduit from the normal flow of the liquid mixture during a predetermined period of time,

at least substantially decreasing the flow of the liquid phase through the first outlet conduit from the normal flow of the liquid phase during the same predetermined period of time,

sensing the course of the pressure change in the outlet conduit from the normal operating pressure during the predetermined period of time, and

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generating an error signal in response to the sensed course of pressure change when this deviates from an expected normal course of pressure change.

- 2. A method according to claim 1, wherein the flow of the liquid phase through the first outlet conduit is prevented during the predetermined period of time.
- 3. A method according to claim 1, wherein the flow of the liquid mixture through the supply conduit is prevented during the predetermined period of time.
- 4. A method according to claim 1, wherein the second of the separated components constitutes sludge, a second outlet of the centrifugal separator is formed by a sludge discharge means for intermittent discharge of the sludge, the centrifugal rotor forms an outlet chamber for said one component, and a paring disc is arranged in the outlet chamber and forms said one outlet, and wherein the error signal is generated if the pressure in the first outlet conduit decreases to a predetermined low pressure during the predetermined period of time.
- 5. A method according to claim 4, wherein the predetermined period of time, during which the pressure change in the first outlet conduit is sensed, begins as soon as the centrifugal separator has reverted to an expected normal operation condition after a sludge discharging event.

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- 6. A method according to claim 1, wherein the second of the separated components is constituted by sludge and the second outlet of the centrifugal separator is formed by a sludge discharge means for continuous discharge of the sludge, and wherein the error signal is generated if the pressure in the first outlet conduit decreases at a rate differing from an expected normal pressure decreasing rate during the predetermined period of time.
- 7. A device for indicating an undesired operating condition of a centrifugal separator comprising: a centrifugal rotor forming a separation chamber, a supply conduit for supplying a liquid mixture to be separated to the separation chamber, the liquid mixture containing at least two components, at least two outlets for discharging separated components, respectively, out of the separation chamber, one outlet of the two outlets for discharging a separated liquid phase comprising one of the two components, and a first outlet conduit, the interior which communicates with said one outlet,

an inlet valve situated in the supply conduit and adjustable between open and closed positions,

a first outlet valve situated in the first outlet conduit and adjustable between open and closed positions, the valves being adjustable in at least partly open normal valve positions for passing normal flows through the supply and outlet conduits during normal operation of the centrifugal separator,

a pressure sensor for detecting the pressure in the first outlet conduit upstream the outlet valve,

a signal means for generating an error signal, and
a control unit for activating the signal means to generate
the error signal in response to the pressure sensor detecting
during a predetermined period of time of the operation of the
centrifugal separator a course of pressure change in the outlet
conduit differing from an expected normal course of pressure
change, when the inlet and outlet valves during the
predetermined period of time are adjusted in valve positions
which at least substantially decreases the flows in the supply
and outlet conduits from the normal flows therein.

- 8. A device according to claim 7, wherein during the predetermined period of time the control unit is adapted to activate the signal means to generate the error signal in response to the pressure sensor detecting a course of pressure change in the first outlet conduit differing from an expected normal course of pressure change, when the first outlet valve is closed and the first inlet valve is adjusted in a valve position which at least substantially decreases the flow in the supply conduit from the normal flow therein.
- 9. A device according to claim 7, wherein during the predetermined period of time the control unit is adapted to activate the signal means to generate the error signal in response to the pressure sensor detecting a course of pressure change in the first outlet conduit differing from an expected normal course of pressure change, when the inlet and outlet valves are closed.

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- 10. A device according to claim 7, wherein the second of the separated components is constituted by sludge, the second outlet of the centrifugal separator is formed by a sludge discharge means for intermittent discharge of the sludge, the centrifugal rotor forms an outlet chamber for said one component, and a paring disc is arranged in the outlet chamber and forms said one outlet, and during the predetermined period of time the control unit is adapted to activate the signal means to generate the error signal in response to the pressure sensor detecting a pressure in the first outlet conduit which is below a predetermined pressure, which is lower than a normal operation pressure in the first outlet conduit.
- 11. A device according to claim 7, in which the second of the separated components is constituted by sludge and the second outlet of the centrifugal separator is formed by a sludge discharge means for continuous discharge of the sludge, and during the predetermined period of time the control unit is adapted to activate the signal means to generate the error signal in response to the pressure sensor detecting a pressure in the first outlet conduit which decreases at a rate differing from an expected normal pressure decreasing rate.

- 12. A device according to claim 5, wherein the control unit controls the inlet valve for adjusting the valve position thereof, and that during the predetermined period of time the control unit is adapted to activate the signal means to generate the error signal and lock the inlet valve in a closed valve position in response to the pressure sensor detecting a course of pressure change in the first outlet conduit differing to an unacceptably large extent from the expected normal course of pressure change.
- 13. A device according to claim 7, wherein the control unit controls the outlet valve for adjusting the valve position thereof.